Project Plan

<Project Name>

Student Names

Table of Contents

[1.0 Introduction 3](#_Toc46748287)

[1.1 Problem Background 3](#_Toc46748288)

[1.2 Scope 3](#_Toc46748289)

[1.3 Document contents 3](#_Toc46748290)

[2.0 Work Breakdown Structure 4](#_Toc46748291)

[3.0 Activity Definition & Estimation 5](#_Toc46748292)

[4.0 Gantt Chart 6](#_Toc46748293)

# Introduction

## Background

Road accidents are avoidable and take a great toll on road users and the General public. Although the emotional toll of road accidents is enormous, there is also an exceedingly great cost to Governments and Tax Payers, in 2018 alone this cost was estimated to be more than $5 billion in fatalities and hospitalised casualties <https://statements.qld.gov.au/statements/88410#:~:text=Minister%20for%20Transport%20and%20Main%20Roads&text=%E2%80%9CIn%202018%2C%20the%20economic%20cost,billion%2C%E2%80%9D%20Mr%20Bailey%20said>

Governments provide educational resources about road accident statistics to the general public, as well as other initiatives in an attempt to curb road accidents through education and awareness. As well as using crash statistics for research purposes and for the development of road safety programs, The Victorian Government requires an application to analyse and process Victorian Road Accident Statistics between 2015 and 2020 for an upcoming educational initiative, which will be provided to learners and road users.

## Scope

The Road Accident Stats App will be written in Python 3.7, and provide a user with a graphical user interface for selecting search criteria and the program will output sorted information and models. The data the program will perform tasks on is limited to the Crash Statistics Victoria CSV file.

Required features of the program:

* Graphical user interface for users to select time periods and input accident keywords
* Display information of all accidents that happened during a user-selected period
* Produce a chart showing the average number of accidents in each hour of the day during a user-selected period
* Display all accidents caused by a user entered accident type keyword.
* Analyse trends of accidents due to alcohol
* Analyse trends of accidents involving motorcyclists and the road geometry

The program will not include data outside of the provided CSV file, or the output of information or charts other than specified.

[1.0 System Vision Document 2](#_Toc89719974)

[1.1 Problem Description 2](#_Toc89719975)

[1.2 System Capabilities 2](#_Toc89719976)

[1.3 Business Benefits 2](#_Toc89719977)

## Document contents

This Project Plan contains project planning specific tools to ensure the project can be completed in the most efficient time period possible. A Work Breakdown Structure indicating the breakdown and duration of tasks required to complete the project is provided and indicates a task id, prerequisites of tasks, and the team members required to complete. Activity definitions and estimations are broken down and is then used to create a Gantt chart to monitor and review the critical path in order to delegate and schedule tasks accordingly. These charts will be updated iteratively as the project progresses.

*Include some background information about the problem, the scope and what this document will contain.*

# Work Breakdown Structure

*This section should include the work breakdown structure for the whole project. The elements from the WBS should be used to generate your activity definition and those activities should then be scheduled in the Gantt Chart. Remember to consider ALL project activities – anything you do or will need to do should be included in the WBS*

*WBS’s are usually presented as some kind of hierarchical diagram/chart etc. The details what is involved each work unit should be provided in section 3:* ***Activity Definition***

*You do NOT need to do a WBS Dictionary for this project – the activity definition (whilst slightly different) will suffice. The WBS is focussed on SCOPE. The Activity definition is focussed on TIME.*

# Activity Definition & Estimation

*From your WBS, define the activities required for your project. You will revise this document and add more detail for part B as you discover more about the project.*

*Each activity should be clearly identified by a number and should match up to your Gantt chart. You should provide some estimations for the time you think each activity will take. This should make it easy to prepare your Gantt chart.*

# Gantt Chart

*This section should contain your Gantt chart. The items in the Gantt chart should match the activity definition from section 3. You should also submit your Gantt chart file separately.*